N 22/18

ARMED FORCES
RESEARCH
DEVELOPMENT
NAVAL
EXPLOSIVE ORDNANCE DISPOSAL TECHNOLOGY
CENTER

D 201.2:

NAVAL EXPLOSIVE ORDNANCE DISPOSAL TECHNOLOGY CENTER

HEADQUARTERS – HEINZ BUILDING

WHAT IS THE NAVAL EXPLOSIVE ORDNANCE TECHNOLOGY CENTER ?

The acronym NAVEODTECHCEN is, to some extent, misleading. It implies that NAVEODTECHCEN is a Navy facility with Navy personnel and Navy explosive ordnance.

This is only a small part of the story. NAVEODTECHCEN is in reality a support activity administered by the Navy, for all the Armed Services: Navy, Army, Marine Corps, and Air Force alike. It is from here that the military draws its scientific and technical expertise for explosive ordnance disposal.

Originally established after World War II to support the mine countermeasures of the Navy, the EOD facility has today become the mainstay of all operational EOD forces.

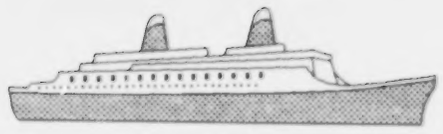
Civilians and military, scientists and engineers, technicians and publications experts, form an amalgam of experience and know-how that has earned NAVEODTECHCEN a unique position as the primary authority on explosive ordnance of the world.

In conjunction with the EOD team, representatives from each Armed Services branch work together to determine joint explosive ordnance requirements. Their practical experience combines with our technology for successful solutions to today's explosive ordnance disposal problems.

The ultimate customer of this EODTECHCEN effort is the specialist in the fleet and in the field. He remains the heart of the program. It is our responsibility towards him to provide the best means possible for ordnance disposal. We meet this responsibility by providing research and development, by developing disposal procedures, and by monitoring the programs and equipment that will ultimately spell success for the EOD specialist. Our uniquely qualified EOD staff ensures that these goals are met.

NAVEODTECHCEN is more than just a Navy facility; it is a vital inter-service technology center where exciting and challenging research and development program chart the future of the world's explosive ordnance technology.

HISTORY



NAVEODTECHCEN traces its origin back to World War II, when the Navy recognized the need for countering the more advanced weapons systems being deployed by the Axis nations. To satisfy this new requirement, the Navy established a Naval Mine School at the Naval Gun Factory in May of 1941. Later that year, a Naval Bomb Disposal School was also established.

Graduates from these Schools proved the capability to be highly effective in neutralization and disposal of these weapons, both during and after the war. EOD had now established itself as a viable program within the Navy, and in 1945, the Naval Mine and Bomb Disposal Schools were combined into the Naval Ordnance Disposal Unit. In 1946, this new unit was moved to the Naval Powder Factory, Indian Head, Maryland.

In 1951, the Navy was assigned Joint-service EOD

responsibilities for basic training and research and development. Two years later, the research and development tasks were established as a seperate organization, and redesignated the Naval Explosive Ordnance Disposal Technical Center. The new Center was located at the Stump Neck Annex. The training function was renamed the Naval Explosive Ordnance Disposal School, and remained at the Naval Powder Factory.

After the Center's inception, the Navy tasked the Center with significant additional mission responsibilities. In 1955, to accomplish these additional tasks, the Center's technical staff was expanded to include civilian engineers and technicians. In 1962 the Center was redesignated the Naval Explosive Ordnance Disposal Facility (NAVEODFAC), and placed under the direction of a Commanding Officer.

NAVEODFAC's continued military and technical contributions

to the Joint-service EOD program were further recognized in 1971 when the Facility designated as an Echelon 4 activity under the Naval Ordnance Systems Command. Later the same year, DOD Directive 5160.62 assigned the Secretary of the Navy as Single Manager for Military Explosive Ordnance Disposal Technology and Training. Subsequently, NAVEODFAC was asked to provide the EOD research and development in carrying out the Secretary of the Navy's responsibility for meeting Joint-service EOD technology requirements. In late 1980, NAVEODFAC was redesignated the Naval Explosive Ordnance Disposal Technology Center.

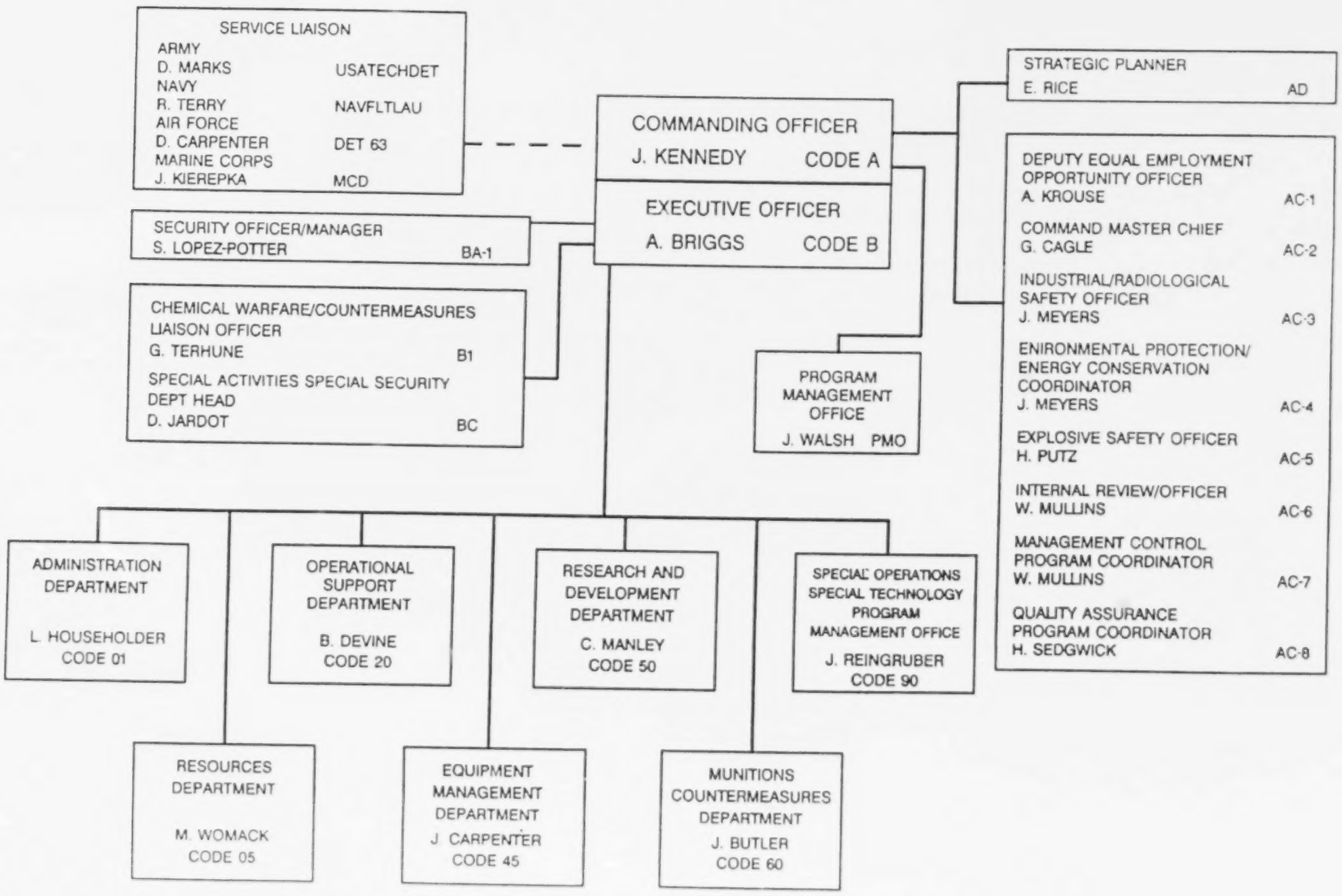
STAFFING AND EMPLOYMENT

The Naval Explosive Ordnance Disposal Technology Center (NAVEODTECHCEN) is an Equal Opportunity Employer, and its recruitment program actively seeks qualified women and minority personnel for all positions. Development of each employee's potential is enhanced by an active employee development/training program and encouraged by the Incentive Awards Program. Engineering, scientific, and technical personnel starting at the entry level can progress quickly to journeyman status through successive career ladder promotions. Entry level engineering positions come under an accelerated salary schedule, giving the young professional a financial head start.

The NAVEODTECHCEN personnel office is ready to provide you with information on application procedures, qualifications requirements for positions, and prospective NAVEODTECHCEN opportunities for you based on your background, education, and experience. Further information concerning employment at NAVEODTECHCEN may be obtained by writing to:

Commanding Officer
Naval Explosive Ordnance
Technology Center
Indian Head, MD 20640-5070

NAVAL EXPLOSIVE ORDNANCE DISPOSAL TECHNOLOGY CENTER



NAVEODTECHCEN
MISSION

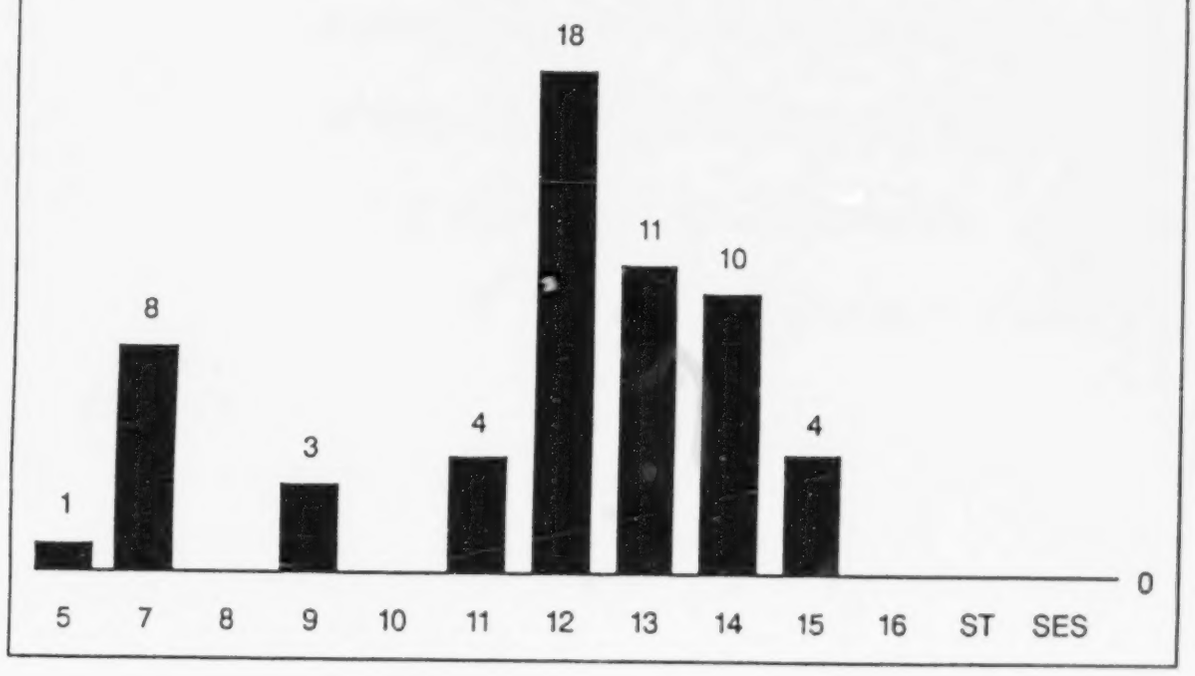
PROVIDE EXPLOSIVE ORDNANCE DISPOSAL TECHNOLOGY AND LOGISTICS MANAGEMENT FOR THE JOINT SERVICES; AND DEVELOP WAR ESSENTIAL ELEMENTS OF INTELLIGENCE, EQUIPMENT AND PROCEDURES TO COUNTER MUNITIONS BOTH U.S. AND FOREIGN, AS REQUIRED TO SUPPORT DEPARTMENT OF DEFENSE COMPONENTS AND THE PEACE TIME SECURITY NEEDS OF OTHER AGENCIES; AS ASSIGNED BY COMMANDER, NAVAL SEA SYSTEMS COMMAND.

PERSONNEL DATA

FY 1990 ACTUAL

SCIENTISTS AND ENGINEERS BY GRADE

(FULL TIME)
(PERMANENT)

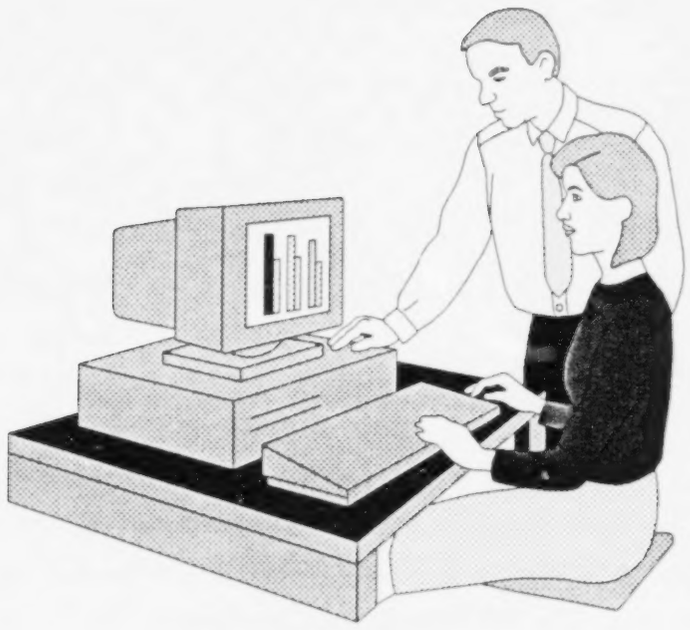


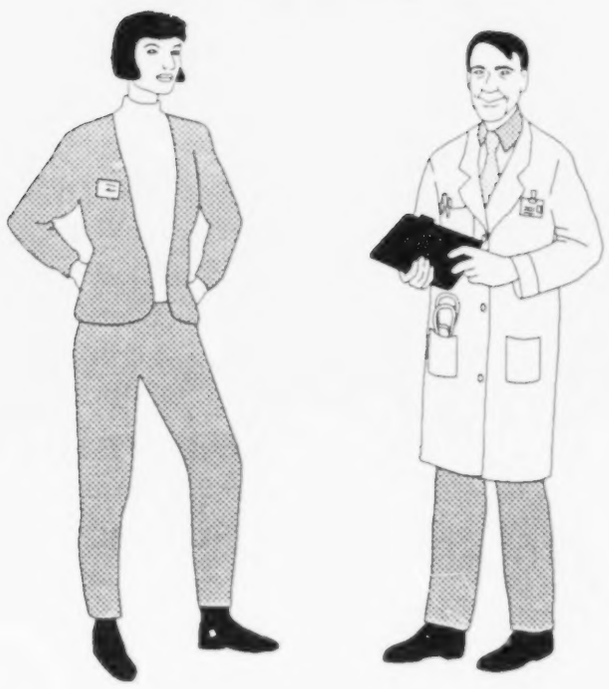
TOTAL PERSONNEL ON BOARD

ONBOARD	315	ADMINISTRATIVE	104
MILITARY OFFICERS	11	TECHNICIANS	23
MILITARY ENLISTED	57	SCIENTISTS & ENGINEERS (FTP)	59
TOTAL CIVILIANS	247	OTHER	61
FTP	241		
TPTI	6		
FTP UNGRADED	12		
FTP GRADED	229		

SCIENTIFIC AND ENGINEERING PERSONNEL BY DISCIPLINE

(Full-Time Permanent)





MILITARY

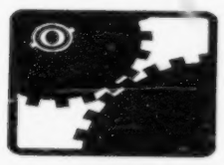
OFFICERS	11
ENLISTED	57
TOTAL	68

CIVILIAN

FULL TIME PERMANENT	
GRADED	229
UNGRADED	12
TOTAL	241

GRADED	
ADMINISTRATIVE	104
TECHNICIANS	23
SCIENTISTS & ENGINEERS	59
OTHERS	61

THE MECHANICAL ENGINEER AT NAVEODTECHCEN



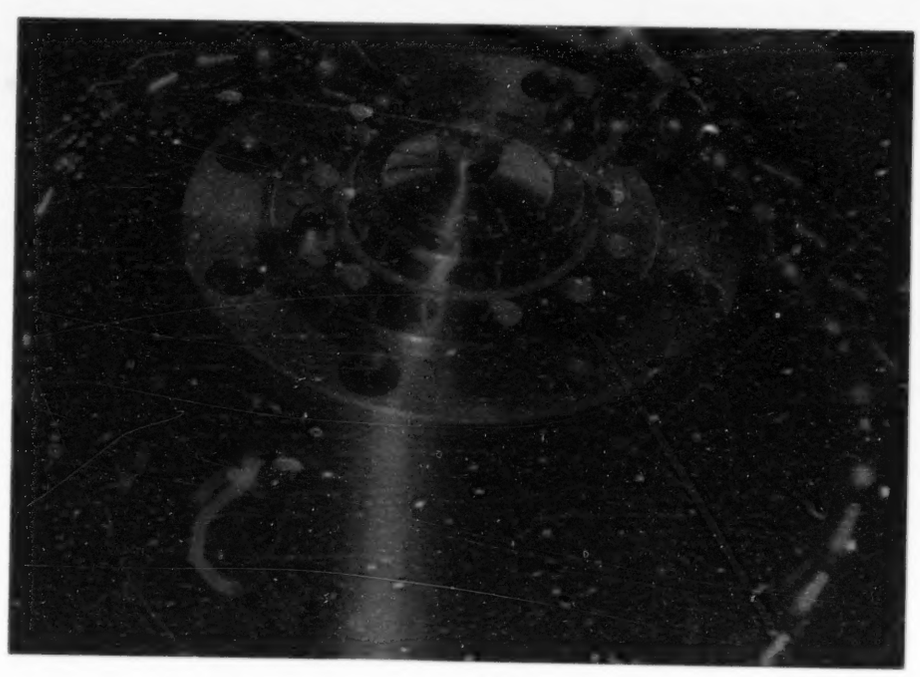
Mechanical engineers make up roughly one-fifth of all engineers at NAVEODTECHCEN and are given positions of responsibility in a variety of programs. These include air and sea weapons countermeasures, robotics, remote controlled vehicles, high thermal systems, armor shields, mechanical manipulators, and test and evaluation. These programs create many engineering challenges for the mechanical engineer.

Examples of work assigments include research and development, materials testing, design, manufacturing, and production support. Mechanical engineers work to improve the reliability, efficiency, and accompanying support systems.

Specific responsibilities include designing and developing facilities and processing equipment; creating methods to meet the requirements of specific processing and testing programs; designing and conducting experiments to define the performance of the final products as well as verifying if the inital requirements have been obtained. This can also lead to redesign and product improvement.

Along with these responsibilities, the mechanical engineer receives "hands-on" experience, interfaces with the appropriate sponsors, conducts the required presentations, and travels to other pertinent facilities.

NAVEODTECHCEN offers the mechanical engineer a wide variety of career paths from which to choose. With each new program, the opportunities for growth and diversification for the mechanical engineer increase.



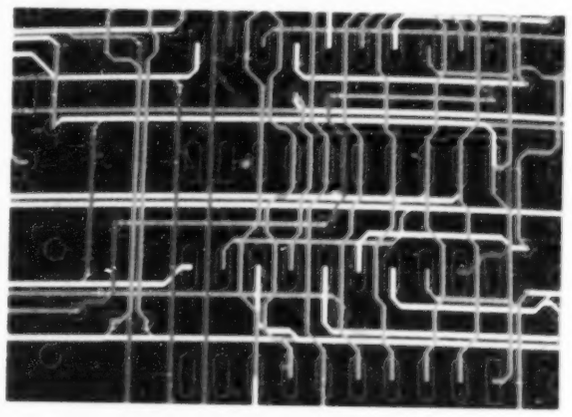
THE ELECTRONIC ENGINEER AT NAVEODTECHCEN

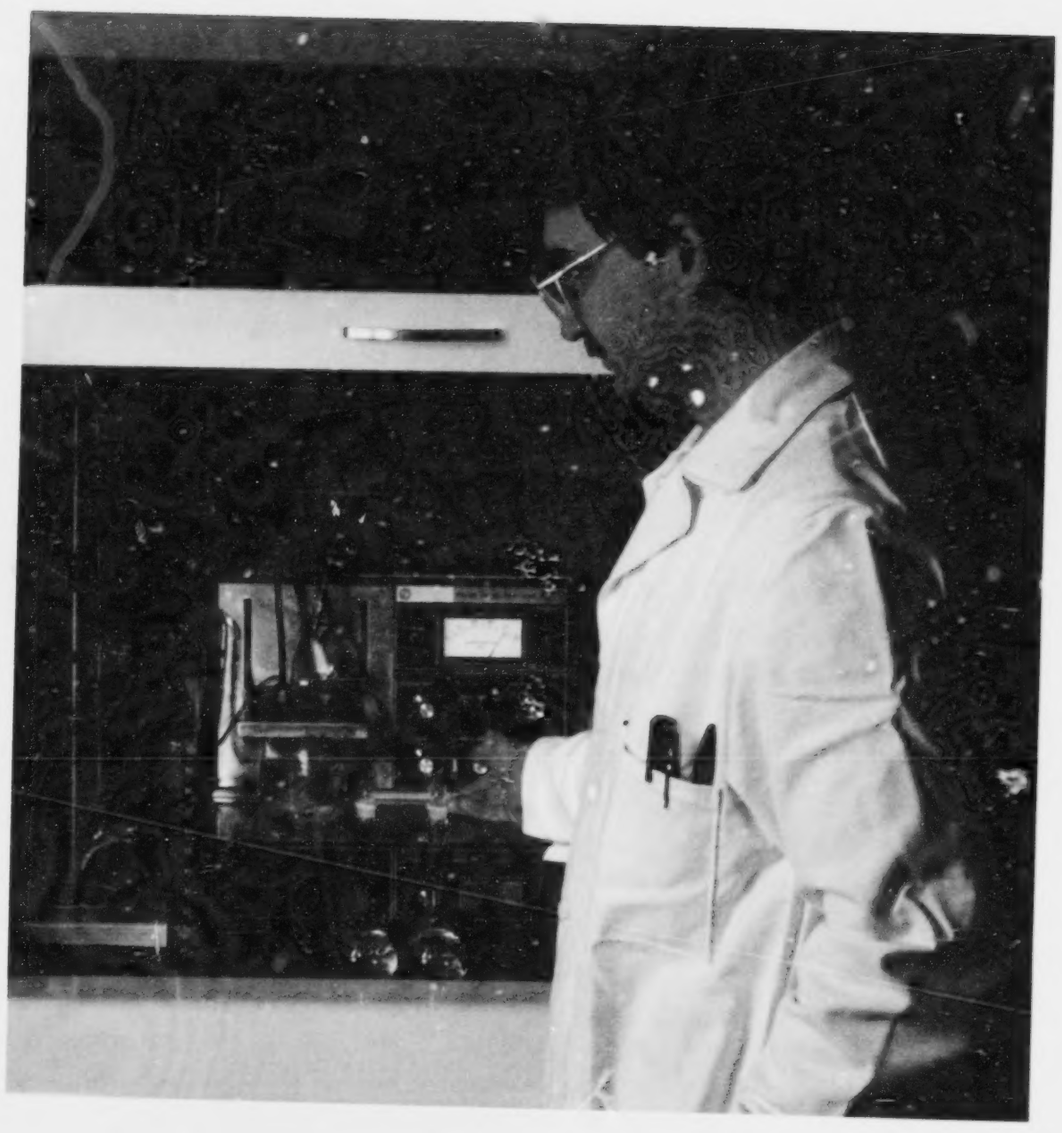
Electronic engineers at NAVEODTECHCEN are a significant part of our engineering workforce. Rapidly emerging technology requires greater sophistication and expertise in this changing engineering discipline. As an electronic engineer at NAVEODTECHCEN, you will work with all types of electrical equipment in a wide range of areas.

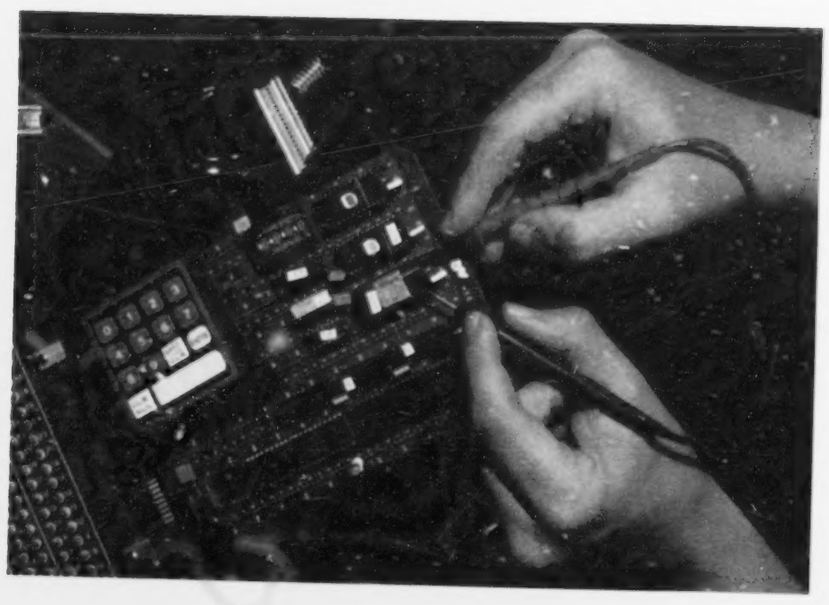
As an electronic engineer you will design and develop specialized instrumentation systems, fiber optic subsystems, digital signal processing applications, underwater acoustic and RF communications equipment. You will assist in the design of electronic systems capable of countering integrated sensor weapons. Electronic engineers will work with such exploratory data as underwater diver magnetic signatures, and will conduct experiments to determine the effects of severe environment on munition circuitry such as cryogenics, liquids, and explosive shock waves.

As a project engineer, you shall be responsible for the conceptual planning, design, prototyping, test coordination, testing, and documentation of electronic devices and tools under development. Additionally, you will be responsible for field deployment of specialized quick reaction equipment in support of EOD, the fleet, and other Government agencies.

NAVEODTECHCEN offers the electronic engineer an exciting variety of assignments and provides an excellent learning experience. We will continue to be on the cutting edge of electronic technology, and opportunities for electronic and electrical engineers are ever-increasing.







THE CHEMICAL ENGINEER AT NAVEODTECHCEN

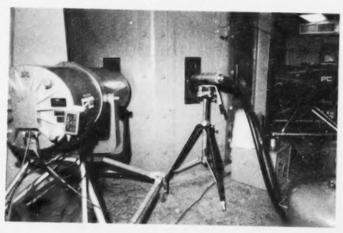
As a chemical engineer at NAVEODTECHCEN, you will join our present team of engineers working on diverse projects with responsibilities varying from exploratory development studies to fleet/ field operational evaluation.

The chemical engineer will be able to conduct exploratory studies in explosives analysis and detection concepts. This includes investigating means to analyze explosives in an operational enviroment. You will conduct studies on polymers and adhesives to be used on land and under water. Another major task will be the development of systems which will effectively neutralize and/or dissolve high explosives, which range from common TNT to complex cross-bonded polymers.

Specific responsibilities include designing and evaluating state of the art chemical methods that will ensure maximum reliability and safety for the user in a hazardous field environment. You will be responsible for reformulating, optimizing and scaling up the existing techniques. At NAVEODTECHCEN, the chemical engineer is never too far from important chemical products or processes.

If you are an engineer who is management oriented, but who refuses to lose contact with the "hands-on" engineering environment, we offer generous opportunities to achieve this goal. In fact, many of our management personnel have chemical engineering backgrounds.

No matter what your goal, NAVEODTECHCEN offers a wide variety of programs to those who wish to enhance their careers and those willing to take responsibility for important defense related projects.



SPECIAL FACILITIES

UNDERWATER TEST FACILITY

A hyperbaric test chamber complex enables the simulation of water depths to 300 feet with a controlled environment from 38F to 130F for equipment evaluation and diver life support system development. The facility also includes a recompression chamber to support diver safety.

HYPERVELOCITY TEST FACILITY

A high-speed camera capable of exposing over one million frames per second coupled with a flash X-ray and multiple transducer system provides the capability to collect data on explosive device hypervelocity phenomena.

MAGNETOMETRY FACILITY

A test facility having a stable-background magnetic field is maintained for low-level static and dynamic magnetic anomaly testing required to certify special tools used on magnetically sensitive devices.

MODEL SHOP FACILITIES

The Model Shop is a unique combination of skilled tradesmen and equipment, the purpose of which is to fabricate prototype training aids in support of the EOD mission.

TECHNICAL LIBRARY

Provides immediate research access to over 275,000 ordnance-related publications from the pre-Revolutionary War era to the present, and data-base access to a wide range of subject matter worldwide.

MUNITION DISASSEMBLY FACILITY

Remotely operated disassembly equipment housed in an explosive-proof building provides munitions evaluation capability. Physical, chemical, and functional data are documented by photography, X-ray, and precise measurement equipment.

CHEMICAL LABORATORY

The chemical laboratory supports ongoing programs in explosive analysis, explosive detection, polymer applications, gas separation technology, and pyrotechnic development. A quick-response capability is provided to the EOD

community in those areas which require examination, documentation, testing, or test hardware development.

EXPLOSIVE TEST RANGES

One 60 pound range on base, provides facilities to validate and verify techniques and procedures developed in support of Service requirements.

RADIOGRAPHY INSPECTION LABORATORY

Radiography, X-ray, fluoroscopic and ultrasonic equipment enables the internal viewing and film recording of munitions weighing up to 3,000 pounds.

MAGAZINE COMPLEX

The Operational Support Department maintains an Explosive Storage Complex for the storage of demolition materials and project related munition items.

PHOTOGRAPHIC LABORATORY

Military photographers provide a complete range of still and video picture service in addition to a modern film processing laboratory.

PUBLICATION PREPARATION/DISTRIBUTION

Provides the capability to prepare, produce, and distribute field-use publications to 160 locations worldwide, and maintain over 1,700 publications currently in use by the Joint Services, both in hard copy and microfiche.

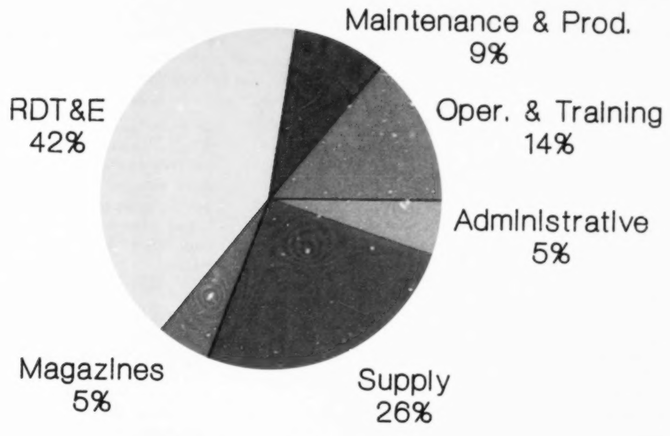
EQUIPMENT MANAGEMENT FACILITY

Provides depot maintenance for Army, Navy, Air Forces and Marine Corps EOD/SWS equipment.

OXYGEN CLEANING AND CALIBRATION FACILITY

Provides certified oxygen cleaning and calibration to support EOD/SWS depot level level repair and calibration requirements.

Facilities
(in square feet)



EMPLOYEE BENEFITS AND SERVICES

The Center's personnel policies are based on recognition of the individual and are aimed at enhancing his professional stature. We offer liberal employee benefit programs common to all Federal agencies and afford maximum stability of employment.

Starting salaries are based on the Federal Salary Schedule, which is available through your placement director.

Salary increases based on satisfactory service are received at regular intervals. Promotions are based on merit and performance. Your potential earning power is excellent.

As a new employee, you are eligible for up to 13 working days of annual leave. After 3 years, you will receive 4 weeks, and after 15 years the rate goes up to 5 weeks and 1 day.

Sick leave is accrued at the rate of 13 working days each year. Sick leave is separate from your vacation time, and there is no limit on the amount you may accumulate.

As a government employee, you receive 10 paid holidays each year: New Year's Day, Washington's Birthday, Martin Luther King's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veteran's Day, Thanksgiving, and Christmas.

Group Life Insurance approximately equal to your annual salary is available on the payroll deduction plan. The cost is low and is paid in part by the Goverment.

An excellent program of EMPLOYEE SERVICES is also available to every employee. An Incentive Awards Program offers substantial cash awards at levels up to $25,000 for money saving suggestions. This program also provides cash awards for superior performance and patent awards for inventors and disclosures.

Additional employee services include: Group Health Plans, Compensation for Job-related Injury or Disease, Blood Donor Replacement Service, Employee-Administered Federal Credit Union for savings accounts and loans, Galley, Picnic Grounds, Civilian Military Recreation Association.

CAREER DEVELOPMENT THROUGH CONTINUING EDUCATION

The NAVEODTECHCEN encourages professional growth of the employee through attendance at institutions located in the Metropolitan Washington area. Evening courses, at the graduate and the undergraduate level, are available at a number of nearby colleges and universities, which include the following:

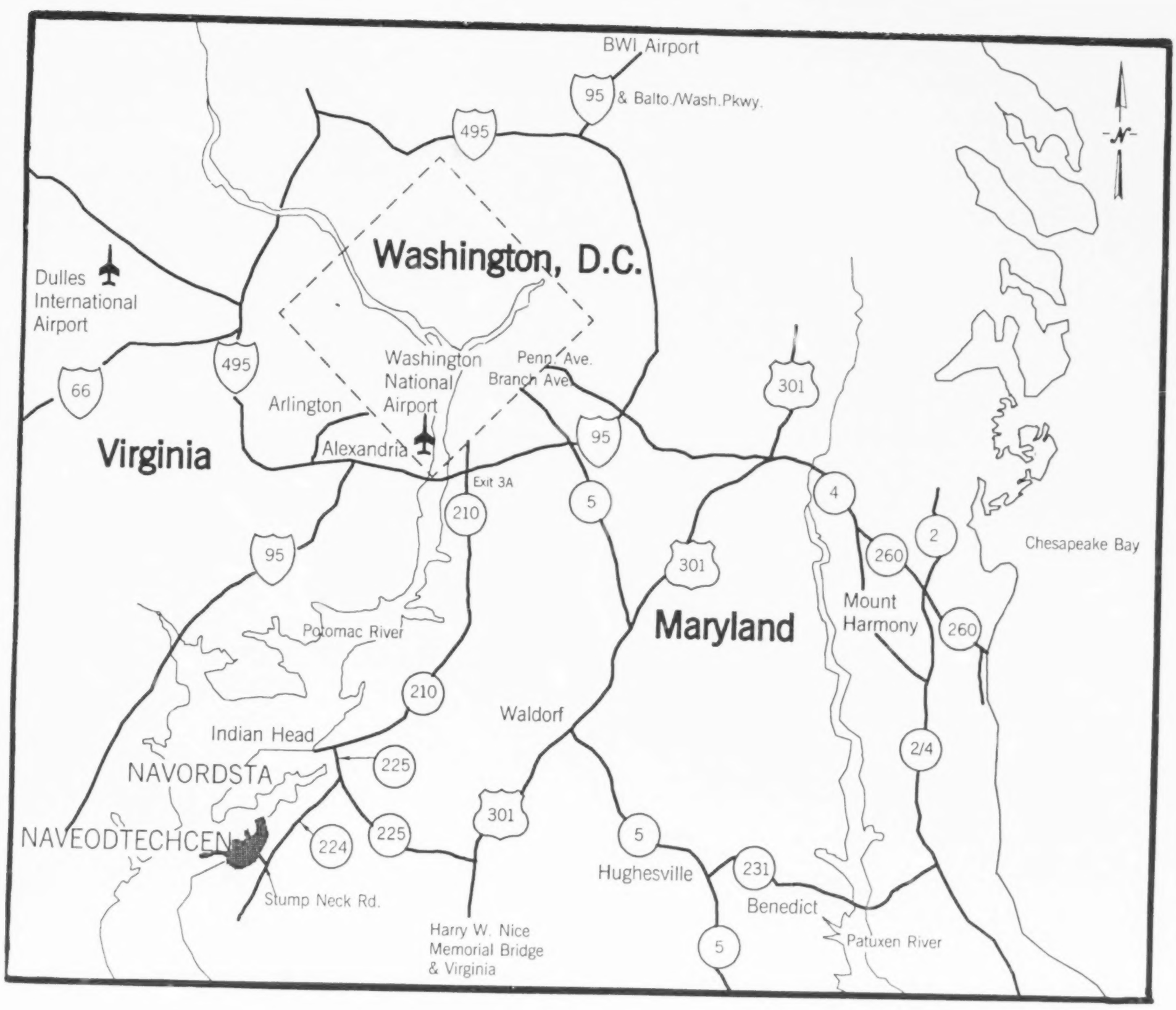
Charles County Community College
University of Maryland
American University
Catholic University of America
Howard University
George Washington University
University of Virginia
Department of Agriculture Graduate School

Southern Illinois University
Upper Iowa University
Central Michigan University
Southeastern University
University of Chicago
University of Miami
University of Oklahoma
University of Southern California

Tuition, for career-related study, is normally paid by the Government.

NAVAL EXPLOSIVE ORDNANCE TECHNOLOGY CENTER

WHERE BEAUTY AND SERENITY ABOUNDS.


BWI Airport
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Penn. Ave.
Branch Ave.
301
Virginia
Alexandria
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Exit 3A
210
5
4
95
301
2
260
Chesapeake Bay
Mount
Harmony
Maryland
Potomac River
260
210
Waldorf
Indian Head
2/4
NAVORDSTA
225
301
NAVEODTECHCEN
224
225
5
Hughesville
231
Benedict
Stump Neck Rd.
Patuxen River
Harry W. Nice
Memorial Bridge
& Virginia
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